

Fig. 1

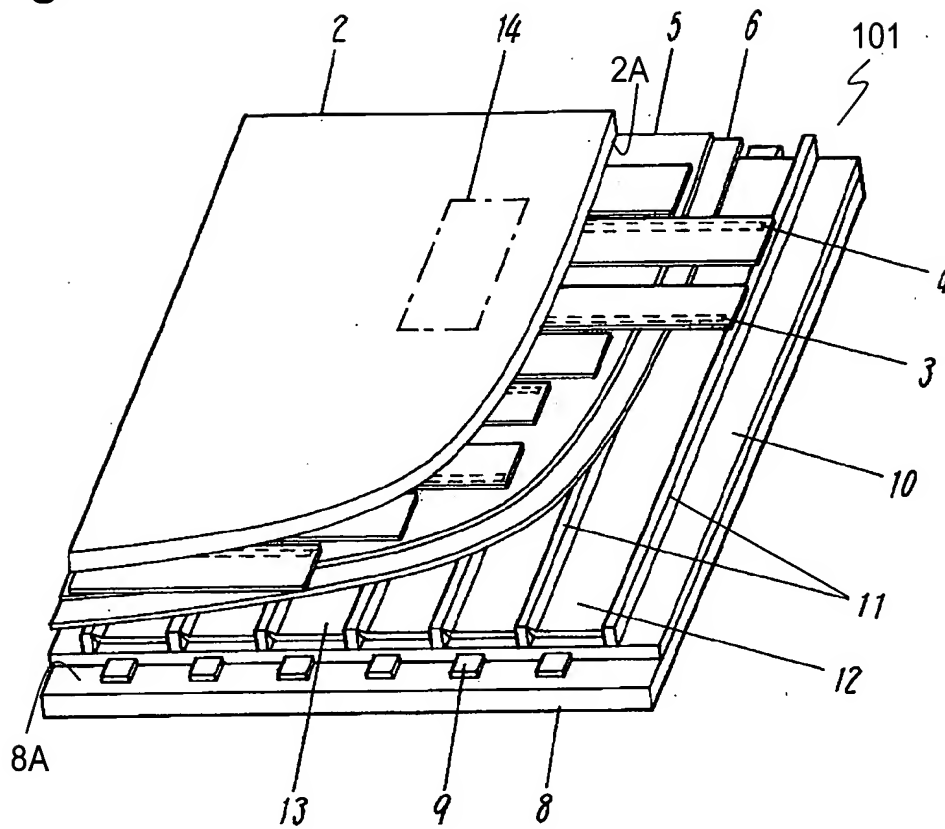


Fig. 2

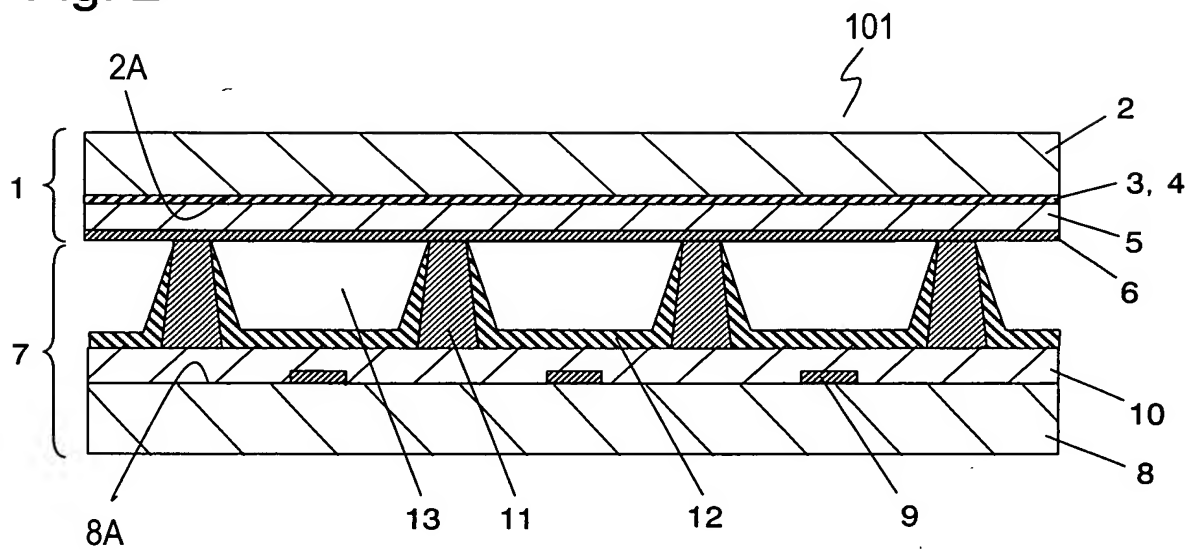


Fig. 3

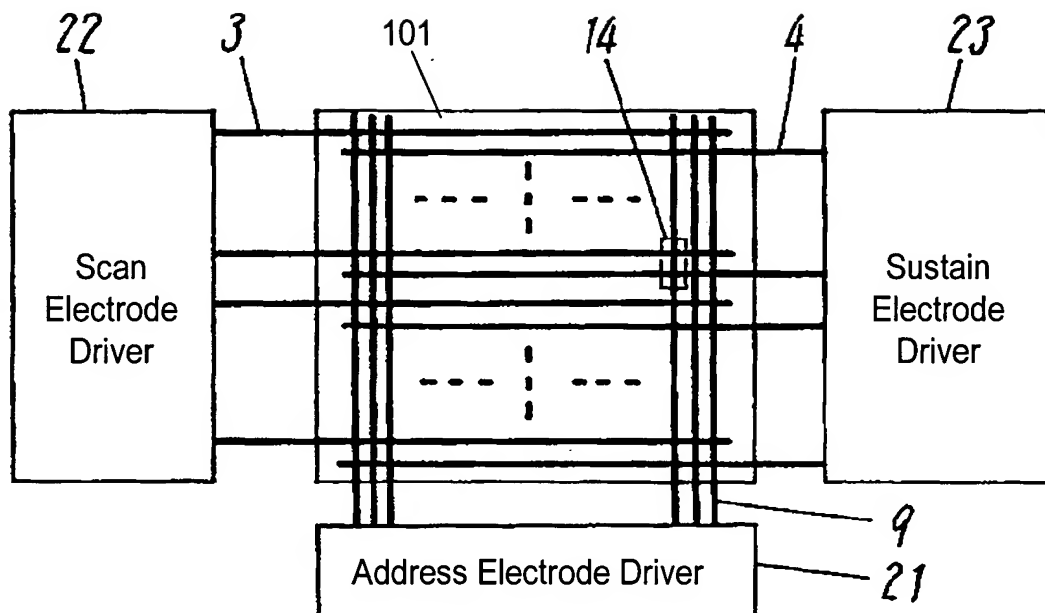


Fig. 4

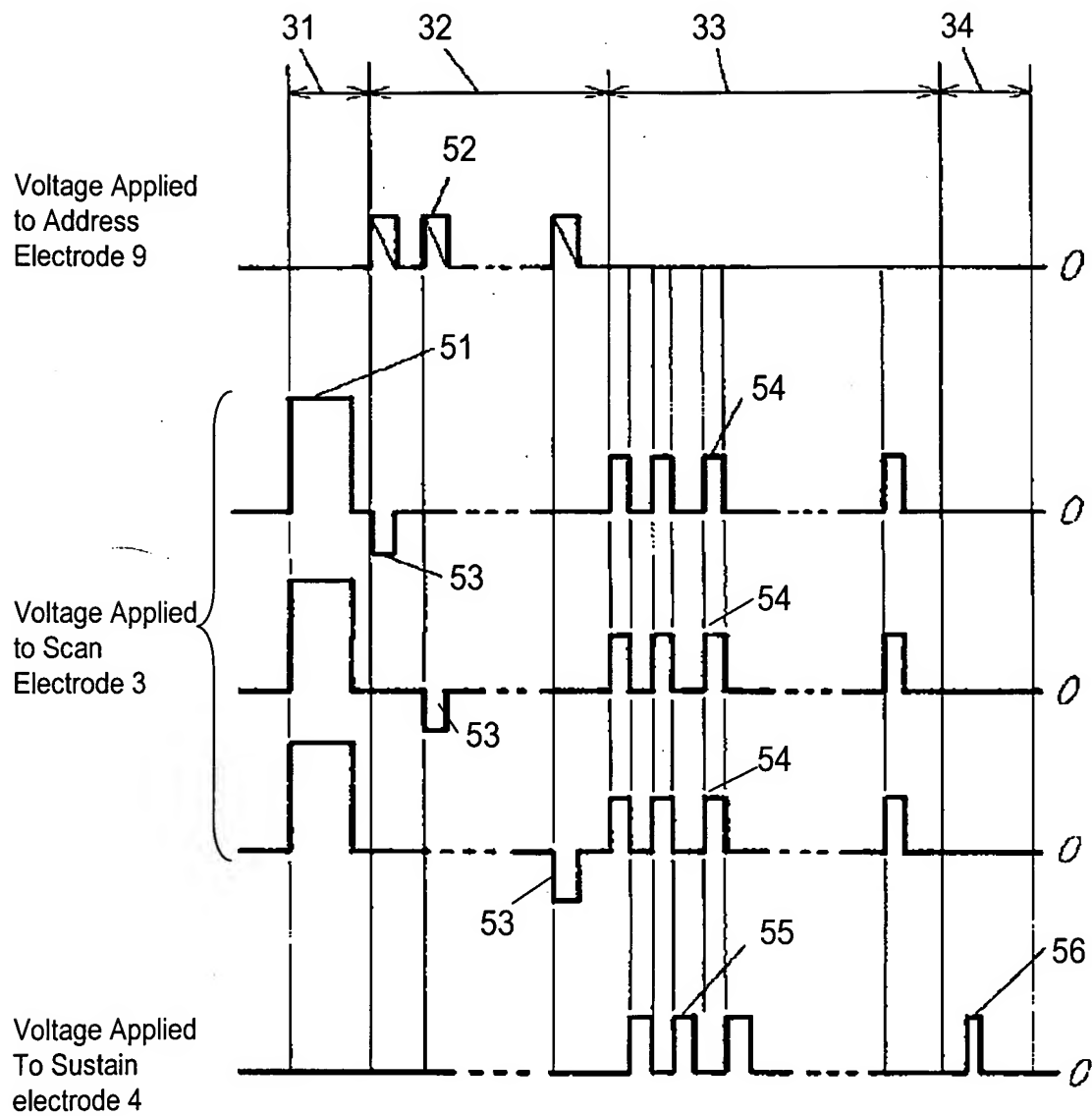


Fig. 5

Sample No.	Magnesium Carbide		Activation Energy	Flicker on Screen
	Composition	Concentration (ppm by weight)		
1	MgC ₂	50	0.29	None
2	MgC ₂	200	0.28	None
3	MgC ₂	1000	0.24	None
4	MgC ₂	7000	0.26	None
5	Mg ₂ C ₃	50	0.28	None
6	Mg ₂ C ₃	70	0.29	None
7	Mg ₂ C ₃	500	0.25	None
8	Mg ₂ C ₃	2000	0.25	None
9	Mg ₂ C ₃	7000	0.29	None
10	Mg ₃ C ₄	50	0.28	None
11	Mg ₃ C ₄	100	0.26	None
12	Mg ₃ C ₄	500	0.25	None
13	Mg ₃ C ₄	3000	0.24	None
14	Mg ₃ C ₄	7000	0.29	None
15	MgC ₂	8000	0.82	Visible
16	Mg ₂ C ₃	20	0.53	Visible
17	None	0	1	Visible

Reference Numerals

- 1 Front Panel
- 2 Front Glass Substrate
- 3 Scan Electrode
- 4 Sustain Electrode
- 5 Dielectric Layer
- 6 Protective Layer
- 7 Rear Panel
- 8 Rear Glass Substrate
- 9 Address Electrode
- 10 Electrode Protective Layer
- 11 Barrier Rib
- 12 Phosphor Layer
- 13 Discharge Space
- 14 Discharge Cell
- 101 Plasma Display Panel